

THE STATE OF WYOMING

JIM GERINGER  
GOVERNOR



CTC  
*[Signature]*

## Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

July 9, 2002

Dolly Potter, Environmental Engineer  
Solvay Minerals  
P.O. Box 1167  
Green River, WY 82935

**RE: Solvay Minerals Green River Soda Ash Plant  
Stack Test Review**

Dear Ms. Potter:

The Division has reviewed the stack test reports submitted by Solvay Minerals under cover letter dated July 1, 2002. Evergreen Air Services Inc. was contracted by Solvay to conduct NOx emission tests on the "A" & "B" Calciners (AQD #17). Sampling was conducted on May 17, 2002. Annual NOx emission tests are required by Operating Permit 30-126 condition F10(a). EPA Reference Methods 1-4 and 7E were utilized to determine NOx emissions.

This review of the test data indicates the "A" & "B" Calciners to be operating in compliance with the NOx emission limit set by Operating Permit 30-126. Operating Permit 30-126 limits NOx emissions from the calciner to 30.00 lb/hr. Review of the test data shows the calciners tested at an average for three test runs at 22.6 lb/hr NOx, 67.1% of it's allowable. The testing was performed at an average load of 67.1%. This percent load represents normal operation.

The Division will accept these tests as representative of NOx emissions at the time of testing from this source. A summary of the analysis is attached.

Please call me at 307-332-6755 if you have questions concerning this matter.

Sincerely,

Carl Diesel  
Air Quality Engineer  
Air Quality Division

cc: T. Hoyt

**SOLVAY2016\_1.4\_000189**

7/9/02

**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
STACK TEST SUMMARY REPORT  
SOLVAY MINERALS GREEN RIVER SODA ASH PLANT  
(17) "A" AND "B" CALCINERS (EP1&2)**

REVIEWER: Diesel		REVIEW DATE: 7/9/02		OBSERVED: <input type="checkbox"/>	
TEST FIRM: Evergreen Air Services, Inc.		TEST TYPE: Compliance Certification			

  

TEST DATE	POLLUTANT TESTED			
5/17/02	NOx			

  

STACK TEMP	PERCENT OF ALLOWABLE	PERCENT OF FULL LOAD		
299	75.3	67.1		

  

ACFM	LB/HR	RATE		
324,700	22.6	24.0 ppm dv		

  

SCFM @ 0% O2:	SCFM	%O2:		
65,788	180,917	13.3		

  

	LB/HR	RATE	LB/MMBTU	SCFM	% LOAD
RUN1:	21.7	23.2 ppm dv		182850	69.3
RUN2:	23.5	24.5 ppm dv		183260	66.8
RUN3:	22.5	24.4 ppm dv		176640	65.3
AVG:	22.6	24.0 ppm dv		180,917	67.1
ALLOW:	30				

  

**RATED CAPACITY: 400 TPH and 500 MMBtu/hr**

  

Annual compliance stack testing required by Operating Permit 30-126. EPA Reference Methods 1-4 and 7E were utilized for testing. Three one hour test runs were performed.